Index of Claims

| App | licatio | 1/Con | trol | No. |
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10/656,292

Examiner

Zachary M. Pape

Applicant(s)/Patent under Reexamination

SUN ET AL.

Art Unit

2835

| √  | Rejected |
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| II | Allowed  |

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

**Appeal** A 0 Objected

|                                                    |          |                                                  |          |          |                                                  |          | •        |              |          |                                                  |    |                                                  |          |          |          |              |              | '                                                | _        |
|----------------------------------------------------|----------|--------------------------------------------------|----------|----------|--------------------------------------------------|----------|----------|--------------|----------|--------------------------------------------------|----|--------------------------------------------------|----------|----------|----------|--------------|--------------|--------------------------------------------------|----------|
| Cla                                                | aim      |                                                  |          |          |                                                  | Date     | <u> </u> |              |          |                                                  |    | Cla                                              | aim      |          |          |              | C            | Date                                             | <br>e    |
| Final                                              | Original | 11/1/04                                          |          |          |                                                  |          |          |              |          |                                                  |    | Final                                            | Original |          |          |              |              |                                                  |          |
|                                                    | 1        | 1                                                |          |          | Г                                                |          |          | 1            |          |                                                  |    |                                                  | 51       |          |          |              |              |                                                  | Г        |
|                                                    | 2        | 1                                                |          |          |                                                  |          |          |              |          |                                                  |    |                                                  | 52       |          |          |              |              |                                                  | Г        |
|                                                    | 3        | 1                                                |          |          |                                                  |          |          |              |          |                                                  |    |                                                  | 53       |          |          |              |              |                                                  |          |
|                                                    | 4        | 1                                                |          |          |                                                  |          |          |              |          |                                                  |    |                                                  | 54       |          |          |              |              |                                                  |          |
|                                                    | 5        | 1                                                |          | L        |                                                  |          |          | _            |          |                                                  |    |                                                  | 55       |          |          |              |              |                                                  |          |
|                                                    | 6        | V                                                | _        |          | <u> </u>                                         |          | Ŀ        | _            | _        | _                                                |    |                                                  | 56       |          |          |              |              |                                                  | L        |
|                                                    | 7        | 1                                                | _        | _        | <u> </u>                                         |          |          | <u> </u>     | _        | _                                                |    |                                                  | 57       | _        |          |              |              |                                                  | L        |
|                                                    | 8        | 1                                                | ļ        | <u> </u> |                                                  |          |          | <u> </u>     | <u> </u> | L                                                |    |                                                  | 58       |          |          |              |              |                                                  | _        |
|                                                    | 9        | _                                                | L        | <u> </u> | _                                                | _        | _        | _            | _        | -                                                |    |                                                  | 59       | <u> </u> |          |              | _            |                                                  | ┡        |
|                                                    | 10<br>11 | ├                                                | -        | -        | -                                                | -        | -        | ⊢            | ├        | -                                                |    |                                                  | 60       | _        |          | _            |              | <u> </u>                                         | ⊬        |
|                                                    | 12       | ┝                                                | -        |          | -                                                | -        | ⊢        | ⊢            | ⊢        | _                                                |    |                                                  | 61<br>62 | -        |          | -            | _            | $\vdash$                                         | ├        |
|                                                    | 13       | -                                                | -        | $\vdash$ | ┢                                                | -        | ⊢        | ┝            | H        | -                                                |    | _                                                | 63       |          |          | ├            |              | _                                                | ├        |
|                                                    | 14       | $\vdash$                                         | $\vdash$ | ⊢        | ⊢                                                | ⊢        | ⊢        | ⊢            | ⊢        | ⊢                                                |    | -                                                | 64       | -        |          | $\vdash$     | $\vdash$     | H                                                | ⊢        |
| -                                                  | 15       |                                                  | ⊢        | ⊢        | ⊢                                                | ⊢        | $\vdash$ | ├            | $\vdash$ |                                                  |    |                                                  | 65       |          | _        | $\vdash$     | $\vdash$     | $\vdash$                                         | ⊢        |
|                                                    | 16       | $\vdash$                                         | -        | $\vdash$ | $\vdash$                                         | -        | ├        | $\vdash$     | ⊢        | -                                                |    |                                                  | 66       | -        | _        | $\vdash$     | -            | ⊢                                                | ⊢        |
|                                                    | 17       | ╁─                                               |          | -        | ├-                                               | -        | ┢        | $\vdash$     | $\vdash$ | -                                                |    |                                                  | 67       |          | _        | H            | -            | <u> </u>                                         | ⊢        |
|                                                    | 18       | ┢                                                |          | ┢        | ┝                                                | ┢        |          | -            | -        | -                                                |    |                                                  | 68       |          |          | H            | $\vdash$     | $\vdash$                                         | ⊢        |
|                                                    | 19       | ┢                                                | ┢        | $\vdash$ | $\vdash$                                         | -        | -        |              | -        |                                                  |    |                                                  | 69       | _        | _        | -            | $\vdash$     | _                                                | ┢        |
| _                                                  | 20       | ╁╴                                               | $\vdash$ | _        | H                                                | H        | H        | H            | $\vdash$ | $\vdash$                                         |    |                                                  | 70       |          | _        | -            | $\vdash$     | $\vdash$                                         | +        |
|                                                    | 21       | -                                                | -        | -        | -                                                | -        | _        | $\vdash$     | Н        | <del>                                     </del> |    |                                                  | 71       |          | _        | _            | -            | -                                                | -        |
|                                                    | 22       | $\vdash$                                         | -        | <u> </u> | <del>                                     </del> | $\vdash$ | $\vdash$ | $\vdash$     | 一        | $\vdash$                                         |    |                                                  | 72       |          | _        | $\vdash$     | $\vdash$     | $\vdash$                                         | 1        |
| $\vdash$                                           | 23       | <del>                                     </del> | -        |          |                                                  | <u> </u> |          |              |          | $\vdash$                                         |    |                                                  | 73       |          |          |              |              | -                                                | ┢        |
|                                                    | 24       |                                                  |          |          | Т                                                |          |          |              | T        | ┢                                                | ١. |                                                  | 74       |          |          |              |              |                                                  | T        |
|                                                    | 25       | $\vdash$                                         |          | 1        |                                                  |          |          |              | Г        | _                                                |    |                                                  | 75       |          |          |              |              |                                                  | T        |
|                                                    | 26       | Г                                                |          |          |                                                  |          |          |              |          |                                                  | i  |                                                  | 76       |          |          | ╅            | 1            |                                                  |          |
|                                                    | 27       |                                                  |          |          |                                                  | Ι.       |          | Г            |          |                                                  | 1  |                                                  | 77       |          |          |              |              |                                                  | Г        |
|                                                    | 28       |                                                  |          |          |                                                  |          |          |              |          | Γ                                                |    |                                                  | 78       |          |          |              |              |                                                  | Г        |
|                                                    | 29       |                                                  |          |          |                                                  |          |          |              |          |                                                  | i  |                                                  | 79       |          |          |              |              |                                                  |          |
|                                                    | 30       |                                                  |          |          |                                                  |          |          |              |          |                                                  |    |                                                  | 80       |          |          |              |              |                                                  |          |
|                                                    | 31       |                                                  |          |          |                                                  |          |          |              |          |                                                  |    |                                                  | 81       |          |          |              |              |                                                  |          |
| L                                                  | 32       | _                                                |          |          |                                                  |          |          | _            |          |                                                  |    |                                                  | 82       |          |          |              |              |                                                  |          |
|                                                    | 33       | <u></u>                                          |          |          |                                                  |          |          |              | L        | L                                                |    |                                                  | 83       |          |          | _            | L            |                                                  |          |
| <u></u>                                            | 34       | 乚                                                | _        | <u> </u> | <u> </u>                                         | _        | L        | 乚            | L        | _                                                |    |                                                  | 84       | L        |          | _            | _            | _                                                | L        |
| <u> </u>                                           | 35       |                                                  |          | <u> </u> | _                                                | _        |          | <u> </u>     |          | L                                                |    |                                                  | 85       |          |          | _            |              |                                                  | L        |
| ļ                                                  | 36       | <u> </u>                                         | _        |          |                                                  | ļ.,.     | _        | _            |          |                                                  |    |                                                  | 86       |          |          |              |              |                                                  | L        |
| <u></u>                                            | 37       | ļ                                                | -        | -        | ļ                                                | -        | <u> </u> | <u> </u>     | <b> </b> | <u> </u>                                         |    | <u> </u>                                         | 87       | L        | _        | <u> </u>     |              | _                                                | -        |
| <u> </u>                                           | 38       | $\vdash$                                         | -        | -        | <u> </u>                                         | <u> </u> | <u> </u> | <u> </u>     | _        | <u> </u>                                         |    |                                                  | 88       |          | <u> </u> | <u> </u>     | <u> </u>     | <u> </u>                                         | -        |
| <u> </u>                                           | 39       | $\vdash$                                         | -        | _        | _                                                |          | $\vdash$ | $\vdash$     |          | -                                                |    | ļ <u> </u>                                       | 89       | <u> </u> | <u> </u> | -            | $\vdash$     | -                                                | $\vdash$ |
| <u> </u>                                           | 40       |                                                  | -        | -        | -                                                | -        | _        | ├-           | ┞        | <u> </u>                                         |    | <u> </u>                                         | 90       | _        | _        | -            | <del> </del> | <u> </u>                                         | ┡        |
|                                                    | 41       | ├                                                | ⊢        | -        | -                                                | _        | _        | <del> </del> | _        | _                                                |    |                                                  | 91       |          | _        | -            | <u> </u>     | _                                                | ┡        |
| -                                                  | 42       | +-                                               | -        |          | $\vdash$                                         | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ | <del>  -  </del>                                 |    |                                                  | 92<br>93 | $\vdash$ | $\vdash$ | $\vdash$     |              | <del> </del>                                     | ╀        |
| -                                                  | 43       | -                                                | -        |          | $\vdash$                                         | -        | ├-       | ├            | -        | ├                                                |    |                                                  | 93       | -        | -        | ┝            | $\vdash$     | ├-                                               | Ͱ        |
| -                                                  | 45       | +-                                               | $\vdash$ | -        | $\vdash$                                         | -        | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$                                         |    | $\vdash$                                         | 95       | ├        | $\vdash$ |              | -            | $\vdash$                                         | $\vdash$ |
|                                                    | 46       | +-                                               | -        | -        | -                                                | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$                                         |    | <del> </del>                                     | 96       | ┢        | $\vdash$ | $\vdash$     | -            | $\vdash$                                         | +        |
| <del>  -                                    </del> | 47       | $\vdash$                                         | -        | $\vdash$ | -                                                | -        | $\vdash$ | $\vdash$     | ╁        | -                                                |    | <del>                                     </del> | 97       | -        | $\vdash$ | $\vdash$     | $\vdash$     | ├-                                               | $\vdash$ |
| -                                                  | 48       | -                                                | $\vdash$ | $\vdash$ | $\vdash$                                         | $\vdash$ | -        | ├            | $\vdash$ | $\vdash$                                         | 1  | $\vdash$                                         | 98       | -        | $\vdash$ | -            | -            | <del> </del>                                     | $\vdash$ |
| -                                                  | 49       | +-                                               | $\vdash$ | -        | <del>                                     </del> | $\vdash$ | $\vdash$ | ╁            | $\vdash$ | ╁                                                | 1  | <b>-</b>                                         | 99       | $\vdash$ | $\vdash$ | $\vdash$     | ┢            | $\vdash$                                         | +        |
| <b>—</b>                                           | 50       | $\vdash$                                         | -        | $\vdash$ | $\vdash$                                         | $\vdash$ | 1        | H            | t        | -                                                | 1  | <del></del>                                      | 100      | _        |          | <del> </del> | -            | <del>                                     </del> | H        |
|                                                    | , 55     | Ь                                                | Ь.       | _        |                                                  | Щ.       |          | Ц            |          | Ь_                                               | J  | ш                                                | , , , ,  | Ь_       | _        | Ь            |              |                                                  |          |

| Cla      | im             |          |          |          |          | ate      |              |             | -                                                |          |
|----------|----------------|----------|----------|----------|----------|----------|--------------|-------------|--------------------------------------------------|----------|
| - 0.0    |                | _        | _        |          | ī        |          | Ó            |             |                                                  |          |
| Final    | Original       |          |          |          |          |          |              |             |                                                  |          |
|          | 51             |          |          |          |          |          |              |             |                                                  |          |
|          | 52<br>53       |          |          |          | $\Box$   |          |              |             |                                                  |          |
|          | 53             |          |          |          |          |          | $\perp$      |             |                                                  |          |
| <u></u>  | 54<br>55       |          | _        |          | $\Box$   |          |              |             | _                                                |          |
|          | 56             |          |          | -        |          | _        |              | _           | Н                                                | _        |
| _        | 57             | _        | -        | -        | Н        | _        | -            | _           | Н                                                | _        |
| $\vdash$ | 58             |          |          |          | Н        | -        |              |             | -                                                | -        |
|          | 59             |          |          |          |          |          | -            |             | Н                                                |          |
|          | 60             |          |          |          |          |          |              |             |                                                  |          |
|          | 61             |          |          |          |          |          |              |             |                                                  |          |
|          | 62             |          |          |          |          |          |              |             |                                                  |          |
|          | 63             |          |          |          |          |          |              |             |                                                  |          |
|          | 64             |          |          |          |          |          |              | _           |                                                  | _        |
|          | 65             | _        | _        |          | $\vdash$ | _        |              | _           |                                                  | _        |
|          | 66<br>67       |          |          |          |          | _        |              | _           |                                                  |          |
|          | 68             |          |          |          | Н        |          |              | _           |                                                  |          |
|          | 69             |          |          |          | Н        | _        | -            | -           | -                                                |          |
|          | 70             |          |          |          | Н        |          | _            | _           | _                                                | _        |
|          | 71             |          |          |          |          |          |              |             |                                                  |          |
|          | 71<br>72<br>73 |          |          |          |          |          |              |             |                                                  |          |
|          | 73             |          |          |          |          |          |              |             |                                                  |          |
|          | 74<br>75       |          |          |          |          |          |              |             | <u> </u>                                         |          |
|          | 75             |          |          |          |          |          | _            |             | <u> </u>                                         | _        |
| _        | 76<br>77       |          |          |          |          | -        | _            |             | -                                                | _        |
|          | 78             | _        |          |          | Н        |          | -            |             | $\vdash$                                         | _        |
|          | 79             | _        | _        | -        | Н        | -        | _            | _           | -                                                | _        |
|          | 80             |          | -        |          |          |          |              | <del></del> | -                                                | _        |
|          | 81             |          |          |          |          |          |              |             |                                                  |          |
|          | 82<br>83       |          |          |          |          |          |              |             |                                                  |          |
|          | 83             |          |          |          |          |          |              |             |                                                  |          |
|          | 84             | _        | _        |          |          | _        |              | L           | <u> </u>                                         | <u> </u> |
|          | 85             |          |          |          | Н        |          |              | ļ           | <u> </u>                                         | ļ        |
|          | 86<br>87       |          | -        |          | Н        | <u> </u> | Н            | L           | $\vdash$                                         |          |
| -        | 88             |          | $\vdash$ | -        |          | -        | _            | $\vdash$    | $\vdash$                                         | _        |
| -        | 89             | -        |          |          | $\vdash$ |          | -            | ┢           |                                                  | -        |
|          | 90             | _        |          |          | $\vdash$ |          | Т            | $\vdash$    | <del>                                     </del> | _        |
|          | 91             |          |          |          |          |          |              |             |                                                  |          |
|          | 92             |          |          |          |          |          |              |             |                                                  |          |
|          | 93             |          | L        |          |          | L        | <u> </u>     | L           |                                                  | L        |
|          | 94             | _        | $\vdash$ |          | _        | <u> </u> | <u> </u>     | <u> </u>    | <u> </u>                                         | _        |
| -        | 95<br>96       | <u> </u> | H        | <u> </u> | -        | <u> </u> |              | -           |                                                  | <u> </u> |
| -        | 97             | -        | -        | $\vdash$ | $\vdash$ | -        | $\vdash$     | $\vdash$    |                                                  | $\vdash$ |
| <b>—</b> | 98             | -        | $\vdash$ | -        | $\vdash$ | -        | $\vdash$     | $\vdash$    | $\vdash$                                         | $\vdash$ |
| <b> </b> | 99             | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | <del> </del> | $\vdash$    | $\vdash$                                         | $\vdash$ |
|          | 100            | _        |          | -        |          | $\vdash$ | $\vdash$     | Ι           | $\vdash$                                         | $\vdash$ |

| Cli      | aim                             |              |                                                  |          | [            | Date                                   | <del></del> |                                                  |              | $\neg$         |
|----------|---------------------------------|--------------|--------------------------------------------------|----------|--------------|----------------------------------------|-------------|--------------------------------------------------|--------------|----------------|
|          | l .                             |              |                                                  |          |              |                                        |             |                                                  |              |                |
| Final    | jina                            |              |                                                  |          |              |                                        |             |                                                  |              |                |
| 证        | Original                        |              |                                                  |          |              |                                        |             |                                                  |              |                |
|          | 101<br>102                      |              | $\vdash$                                         | -        |              |                                        | _           |                                                  |              |                |
|          | 102                             |              |                                                  |          |              |                                        |             |                                                  |              |                |
|          | 103                             | _            | Н                                                | Г        |              |                                        |             |                                                  | _            |                |
|          | 104                             |              | $\vdash$                                         | $\vdash$ | -            |                                        | $\vdash$    |                                                  | -            |                |
|          | 104<br>105                      |              | $\vdash$                                         | $\vdash$ | _            | Н                                      |             |                                                  |              | $\dashv$       |
| <u> </u> | 106                             |              | _                                                | -        | $\vdash$     |                                        | _           |                                                  |              | $\dashv$       |
| <u> </u> | 107                             | $\vdash$     | -                                                |          | $\vdash$     |                                        |             | _                                                | _            | $\dashv$       |
| <u> </u> | 107<br>108                      | -            | $\vdash$                                         |          |              |                                        | -           |                                                  | _            | $\dashv$       |
| $\vdash$ | 109                             | <u> </u>     | $\vdash$                                         | $\vdash$ |              | -                                      | -           | _                                                | $\vdash$     | $\vdash$       |
| ┢        | 110                             | $\vdash$     | $\vdash$                                         | $\vdash$ | -            |                                        |             | _                                                |              | $\dashv$       |
| <u> </u> | 111                             | $\vdash$     | $\vdash$                                         | H        | H            | -                                      | -           |                                                  | $\vdash$     |                |
| <u> </u> | 112                             | $\vdash$     | $\vdash$                                         | H        | $\vdash$     | -                                      |             | ÷                                                |              | $\dashv$       |
|          | 112<br>113                      | -            | <del>                                     </del> | $\vdash$ | $\vdash$     | -                                      | $\vdash$    | Н                                                | $\vdash$     | $\dashv$       |
| <b>—</b> | 114                             | $\vdash$     | $\vdash$                                         | $\vdash$ | <del> </del> |                                        | $\vdash$    | ⊢                                                | $\vdash$     | $\vdash$       |
|          | 115                             | $\vdash$     | $\vdash$                                         | $\vdash$ | $\vdash$     | $\vdash$                               |             | ⊢                                                | <del></del>  | $\vdash$       |
| -        | 115<br>116                      |              | $\vdash$                                         | $\vdash$ |              | -                                      | -           |                                                  |              |                |
| $\vdash$ | 117                             | <del> </del> | +-                                               | ├        | <del> </del> | $\vdash$                               | $\vdash$    | -                                                | <del> </del> | $\vdash\vdash$ |
| $\vdash$ | 110                             | -            | <del> </del>                                     | $\vdash$ | ┢            | $\vdash$                               | $\vdash$    |                                                  | -            | $\vdash\vdash$ |
|          | 118<br>119                      | -            | $\vdash$                                         | -        | ┢            | -                                      |             | -                                                | -            |                |
| -        | 120                             | ┝            | -                                                | _        | _            | -                                      | ┝           | _                                                | -            |                |
|          | 120<br>121<br>122               | ├            |                                                  | -        | $\vdash$     | $\vdash$                               | -           | $\vdash$                                         | -            | Н              |
| -        | 122                             |              | -                                                | -        | ┝            | $\vdash$                               | ⊢           | $\vdash$                                         | $\vdash$     | Н              |
| -        | 123                             | ├            | ┢╌                                               | -        | ┢            | ┢                                      | ┢           | ┝                                                | <del> </del> | -              |
|          | 123<br>124                      | ┢            | ╁─                                               | ┢        | -            | $\vdash$                               | ┝           | ┝╾                                               | $\vdash$     | Н              |
| -        | 125                             | ┢            | ╁                                                |          | -            | ├─                                     | -           | $\vdash$                                         | $\vdash$     | Н              |
|          | 126                             | $\vdash$     | $\vdash$                                         |          | Н            |                                        | -           | <del>                                     </del> | $\vdash$     | H              |
|          | 126<br>127<br>128<br>129<br>130 | $\vdash$     | $\vdash$                                         | Т        | $\vdash$     | T                                      | _           | _                                                | $\vdash$     | Н              |
|          | 128                             |              | <del> </del>                                     | -        | 1            | 1                                      |             | $\vdash$                                         | $\vdash$     | М              |
|          | 129                             |              | Г                                                | _        | _            |                                        | $\vdash$    | $\vdash$                                         | $\vdash$     | П              |
|          | 130                             | Т            | ⇈                                                | $\vdash$ | _            |                                        |             | $\vdash$                                         |              | П              |
|          | 131<br>132                      |              |                                                  |          |              | Π                                      |             |                                                  |              | П              |
|          | 132                             |              |                                                  |          |              |                                        |             |                                                  |              |                |
|          | .133                            |              | Г                                                | Г        | Г            |                                        | Γ           |                                                  |              | П              |
|          | 134<br>135                      |              |                                                  |          |              |                                        |             |                                                  |              |                |
|          | 135                             |              |                                                  |          |              |                                        |             |                                                  |              |                |
|          | 136                             |              |                                                  |          |              |                                        |             |                                                  |              |                |
|          | 137<br>138                      |              |                                                  |          |              |                                        |             |                                                  |              |                |
|          | 138                             |              |                                                  |          | L            | L                                      |             |                                                  |              |                |
|          | 139                             |              |                                                  |          |              | L                                      |             |                                                  |              |                |
|          | 140                             |              |                                                  |          |              |                                        |             |                                                  |              |                |
|          | 141                             |              |                                                  | 匚        |              |                                        | L           |                                                  | <u> </u>     |                |
|          | 142                             |              | L                                                | 匚        |              |                                        | $\Box$      | $\Box$                                           | $\Box$       |                |
| <u></u>  | 143                             |              |                                                  |          | _            |                                        |             | $\Box$                                           | _            |                |
| <u></u>  | 144                             | _            | _                                                | _        | 匚            | L                                      | L.          |                                                  | <u>_</u>     |                |
| L        | 145                             | _            | $\vdash$                                         | _        |              | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | _           | L_                                               | _            | Ш              |
|          | 146                             | _            | _                                                | <u> </u> | _            | L                                      |             |                                                  |              | Щ              |
|          | 147                             | L            | <u> </u>                                         | 乚        | L            | <u> </u>                               | 乚           |                                                  | <u> </u>     | Щ              |
| <u></u>  | 148                             | L            | <u> </u>                                         | $\perp$  | L_           | L_                                     | oxdot       | $ldsymbol{f eta}$                                |              | Щ              |
| <u></u>  | 149                             | L_           | <u> </u>                                         | <u> </u> | L.           |                                        | <u> </u>    | <u> </u>                                         | <u> </u>     | Щ              |
| <u> </u> | 150                             |              | L_                                               | L        |              | l                                      |             | <u>L</u> .                                       | L_           | L              |